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A computer-implemented method of text equivalencing from a string of characters

- 3 comprising
- 4 modifying the string of characters using a predetermined set of heuristics;
- comparing the modified string with a known string of characters in order to locate a match;
 - responsive to not finding a match, forming a plurality of sub-strings of characters from the string of characters; and
 - using an information retrieval technique on the sub-strings of characters to determine a known string of characters equivalent to the string of characters.
 - 2. The method of claim 1, wherein the information retrieval technique further comprises: weighting the sub-strings; scoring the known string of characters; and retrieving information associated with the known string of characters with the highest score.
 - 3. The method of claim 2, further comprising, responsive to the highest score being
- greater than a first threshold, automatically accepting the known string of characters as an exact
- 3 match.

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- 1 The method of claim 2, further comprising, responsive to the highest score being less 2 than a second threshold and greater than a first threshold, presenting the known string of
- 3 characters to a user for manual confirmation.
 - 5. The method of claim 2, further comprising, responsive to the highest score being less than a second threshold and greater than a third threshold, presenting the known string of characters to a user to select the equivalent string of characters.
 - 6. The method of claim 1, wherein the sub-strings of characters are 3-grams.
 - 7. The method of claim 1, wherein the string of characters is selected from the group consisting of a song title, a song artist, an album name, a book title, an author's name, a book publisher, a genetic sequence, and a computer program.
 - 8. The method of claim 1, wherein the predetermined set of heuristics comprises removing whitespace from the string of characters.
 - 9. The method of claim 1, wherein the predetermined set of heuristics comprises removing a portion of the string of characters.
- 10. The method of claim 1, wherein the predetermined set of heuristics comprises
 2 replacing a symbol in the string of characters with an alternate representation for the symbol.

1	11. The method of claim 1 further comprising storing an indication that the string of
	about the equivalent of the Impum etning of shorestons
2	characters is the equivalent of the known string of characters.
1	12. A computer implemented system for text equivalencing from a string of characters
2	comprising:
3	a heuristics module for modifying the string of characters using a predetermined set
4	of heuristics;
5 =1	a comparator module, coupled to the heuristics module, for comparing the modified
I in the large and a large and	string with a known string of characters in order to find a match;
Į. [1] 7	a sub-string formation module, coupled to the comparator module, responsive to not
8 mm mm 4mm 8	finding a match for forming a plurality of sub-strings of characters from the
:: O	string of characters; and
10 m 10 m 11	an information retrieval module, coupled to the sub-string formation module, for
14) 12) 11)	performing an information retrieval technique on the sub-strings of characters
12	to determine a known string of characters equivalent to the string of
13	characters.
1	13. The system of claim 12, wherein the information retrieval module further comprises:
2 ·	a weight module for weighting the sub-strings;
3	a score module for scoring the known string of characters; and

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- 14. The system of claim 13, further comprising an accept module, coupled to the retrieval module, for accepting the information retrieved as an exact match for the highest score greater than a first threshold.
- 15. The system of claim 13 further comprising an accept module, coupled to the retrieval module, for presenting the information retrieved to a user for manual confirmation for the highest score less than a first threshold and greater than a second threshold.
- 16. The system of claim 13, further comprising an accept module, coupled to the retrieval module, for presenting the information retrieved to the user as a set of options for a user to select for the highest score less than a second threshold and greater than a third threshold.
 - 17. The system of claim 12, wherein the sub-strings of characters are 3-grams.
- 18. The system of claim 12, wherein the string of characters is selected from the group consisting of a song title, a song artist, an album name, a book title, and author's name, a book publisher, a genetic sequence, and a computer program.
- 19. The system of claim 12, wherein the predetermined set of heuristics comprises removing whitespace from the string of characters.

20. The system of claim 12, wherein the heuristics module comprises a removal module

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the string of characters.

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24. The computer-readable medium of claim 23, wherein the information retrieval technique further comprises:

computer-readable code adapted to weight the sub-strings;

computer-readable code adapted to score the known string of characters; and computer-readable code adapted to retrieve information associated with the known string of characters with the highest score.

- 25. The computer readable medium of claim 24, further comprising computer-readable code, responsive to the highest score being greater than a first threshold, adapted to automatically accept the known string of characters as an exact match.
- 26. The computer-readable medium of claim 24, further comprising computer-readable core, responsive the highest score being less than a second threshold and greater than a first threshold, adapted to present the known string of characters to a user for manual confirmation.
- 27. The computer-readable medium of claim 24, further comprising computer-readable code, responsive to the highest score being less than a second threshold and greater than a third threshold, adapted to present the known string of characters to a user to select the equivalent string of characters.
- 28. The computer-readable medium of claim 23, wherein the sub-strings of characters are 3-grams.

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- 29. The computer-readable medium of claim 23, wherein the string of characters selected from a group consisting of a song title, a song artist, an album name, a book title, an author's name, a book publisher, a genetic sequence, and a computer program.
- 30. The computer-readable medium of claim 23, wherein the predetermined set of heuristics comprises removing whitespace from the string of characters.
 - 31. The computer-readable medium of claim 23, wherein the predetermined set of heuristics comprises removing a portion of the string of characters.
 - 32. The method of claim 23, wherein the predetermined set of heuristics comprises replacing a symbol in the string of characters with an alternate representation for the symbol.
 - 33. The computer-readable medium of claim 23 further comprising updating the known string of characters to indicate the string of characters is the equivalent of the known string of characters.
 - 34. A computer-implemented system for performing text equivalencing from a string of characters comprising:
 - a modifying means for modifying the string of characters using a predetermined set of heuristics;
 - a comparator means for comparing the modified string with a known string of characters in order to locate a match;

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responsive to not finding a match, a formation means for forming a plurality sub-
\strings of characters from the string of characters; and
burnings of official form the suring of characters, and
an information retrieval means for determining a known string of characters
an intornation retrieval means for determining a known string of characters
equivalent to the string of characters.

- 35. The system of claim 34, wherein the information retrieval means further comprises:
 - a weight means for weighting the sub-strings;
 - a score means for scoring the known string of characters; and
 - a retrieval means for retrieving information associated with the known string of characters with the highest score.